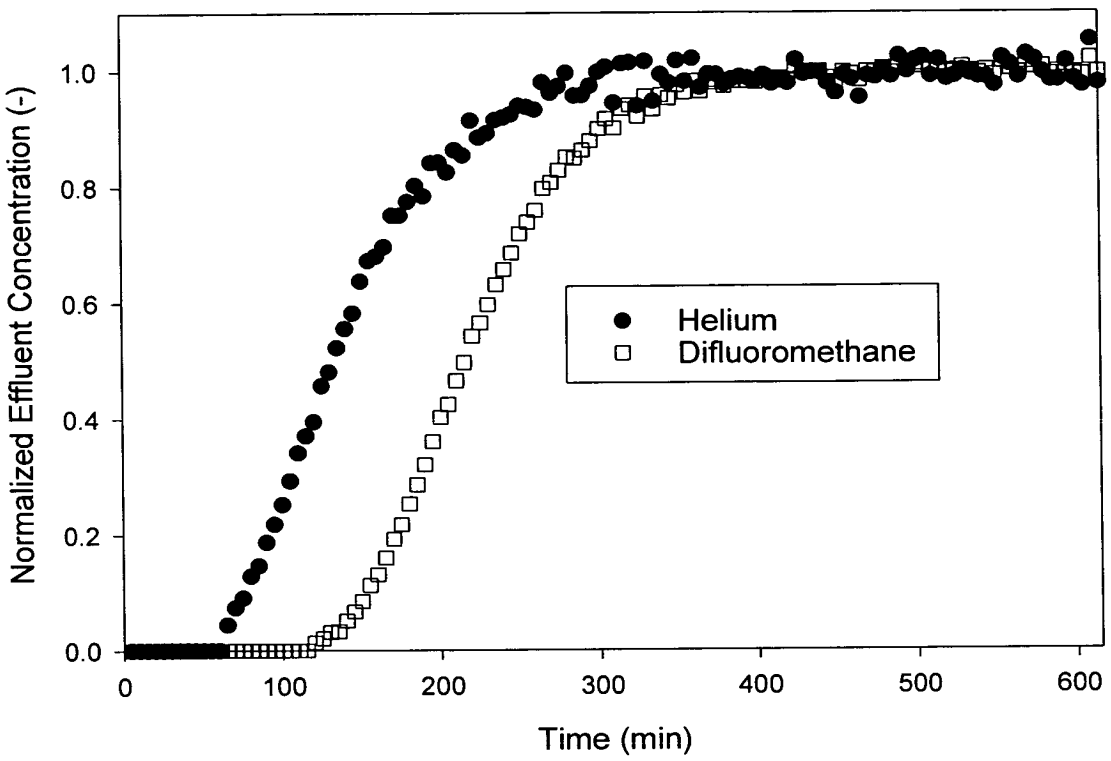

Normalized Effluent Concentration (-)
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
Time (min)
Helium
Difluoromethane

Figure 1

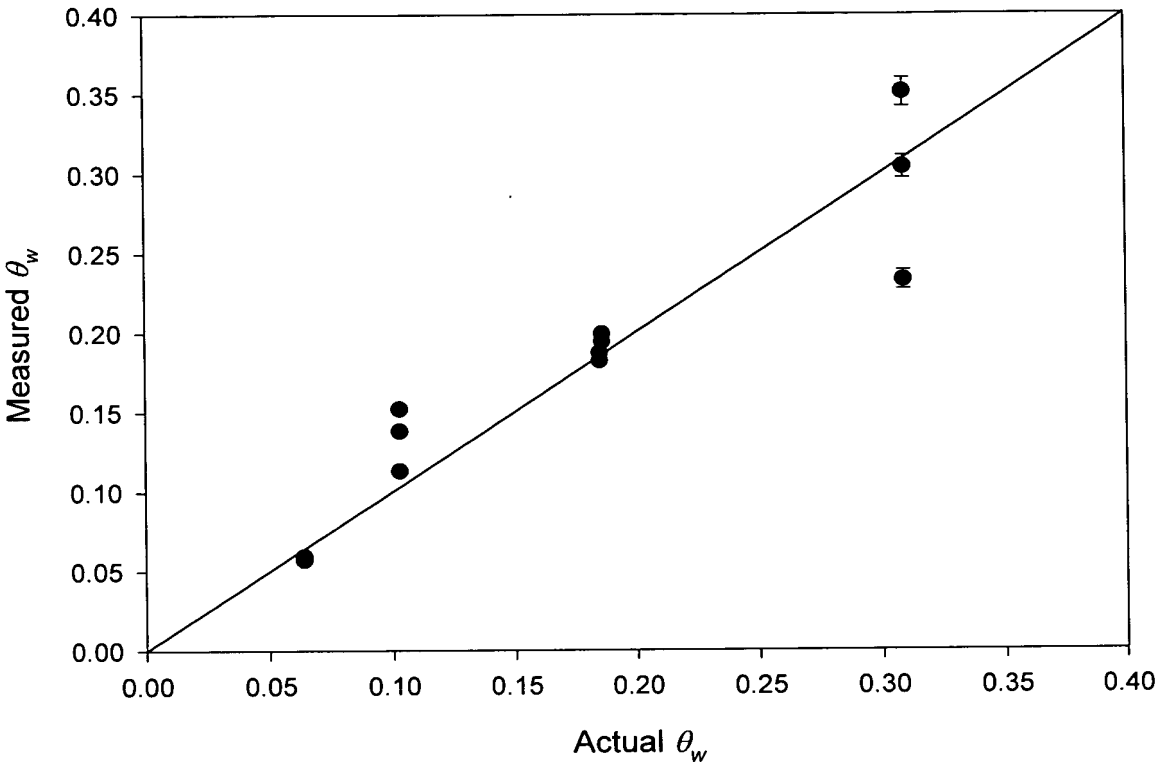

0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Measured θ_w
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
Actual θ_w

Figure 2

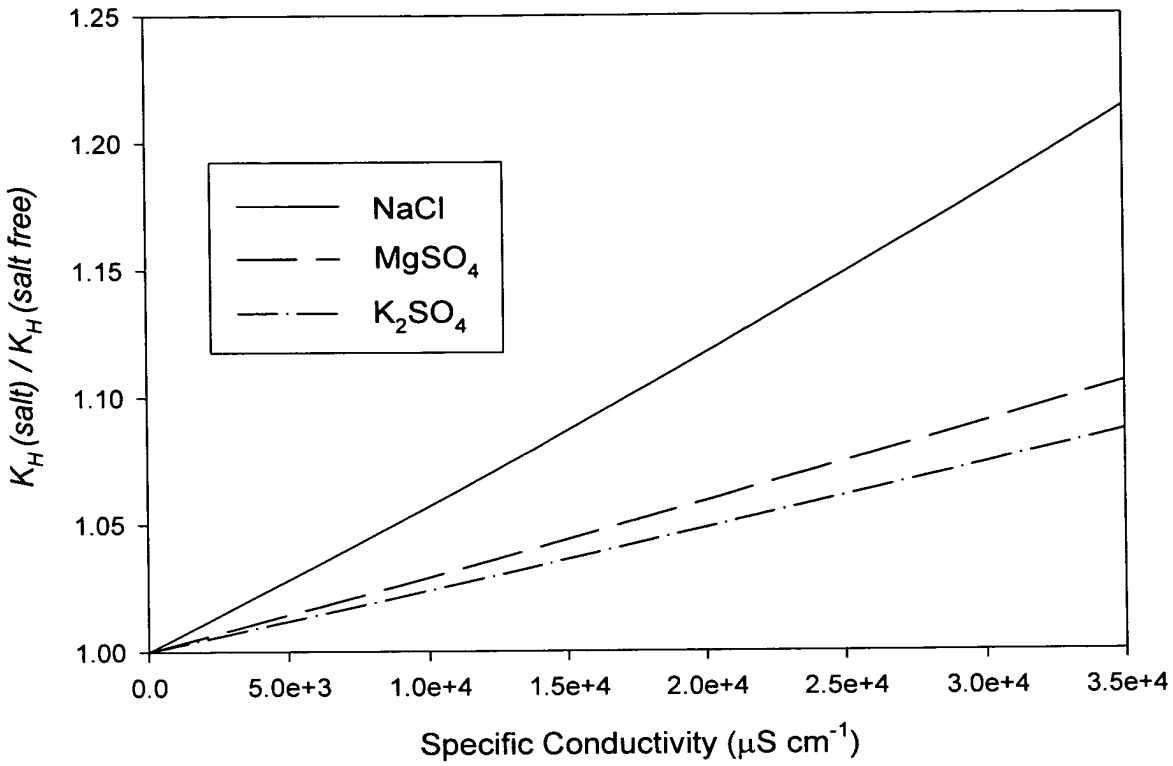

1.25
1.20
1.15
1.10
1.05
1.00
K_H (salt) / K_H (salt free)
NaCl
$MgSO_4$
K_2SO_4
0.0
5.0e+3
1.0e+4
1.5e+4
2.0e+4
2.5e+4
3.0e+4
3.5e+4
Specific Conductivity (μS cm^{-1})

Figure 3

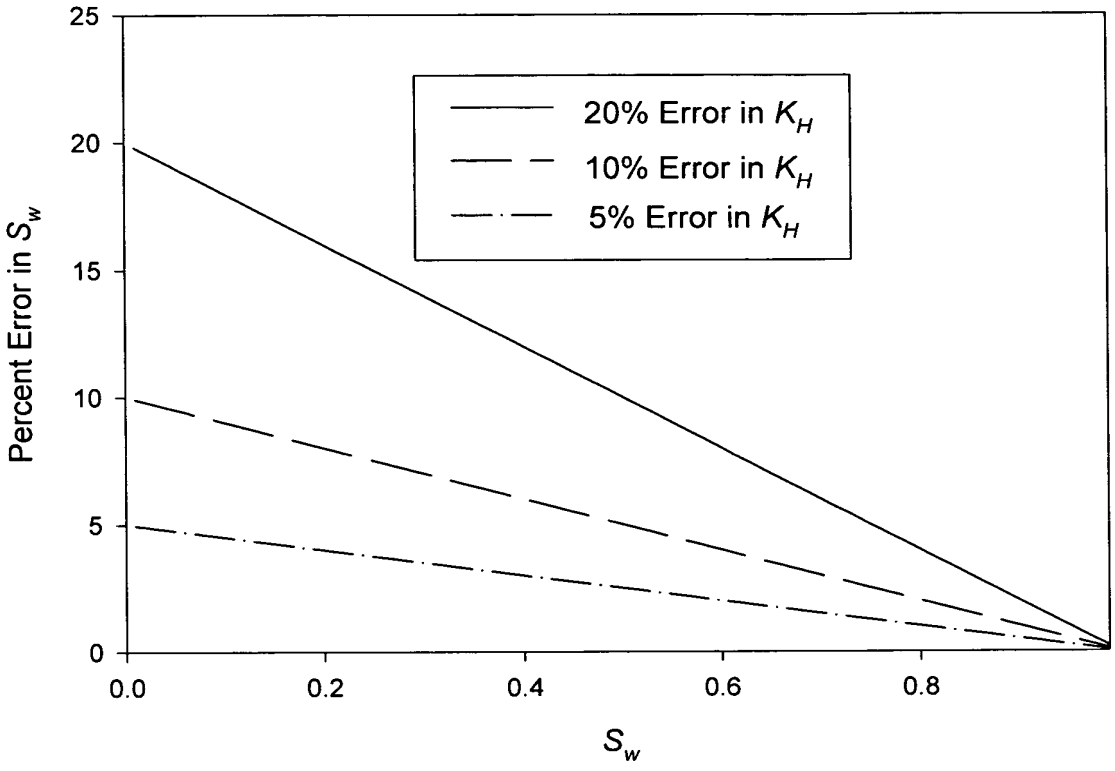

25
20
15
10
5
0
0.0
0.2
0.4
0.6
0.8
Percent Error in S_w
S_w
20% Error in K_H
10% Error in K_H
5% Error in K_H

Figure 4

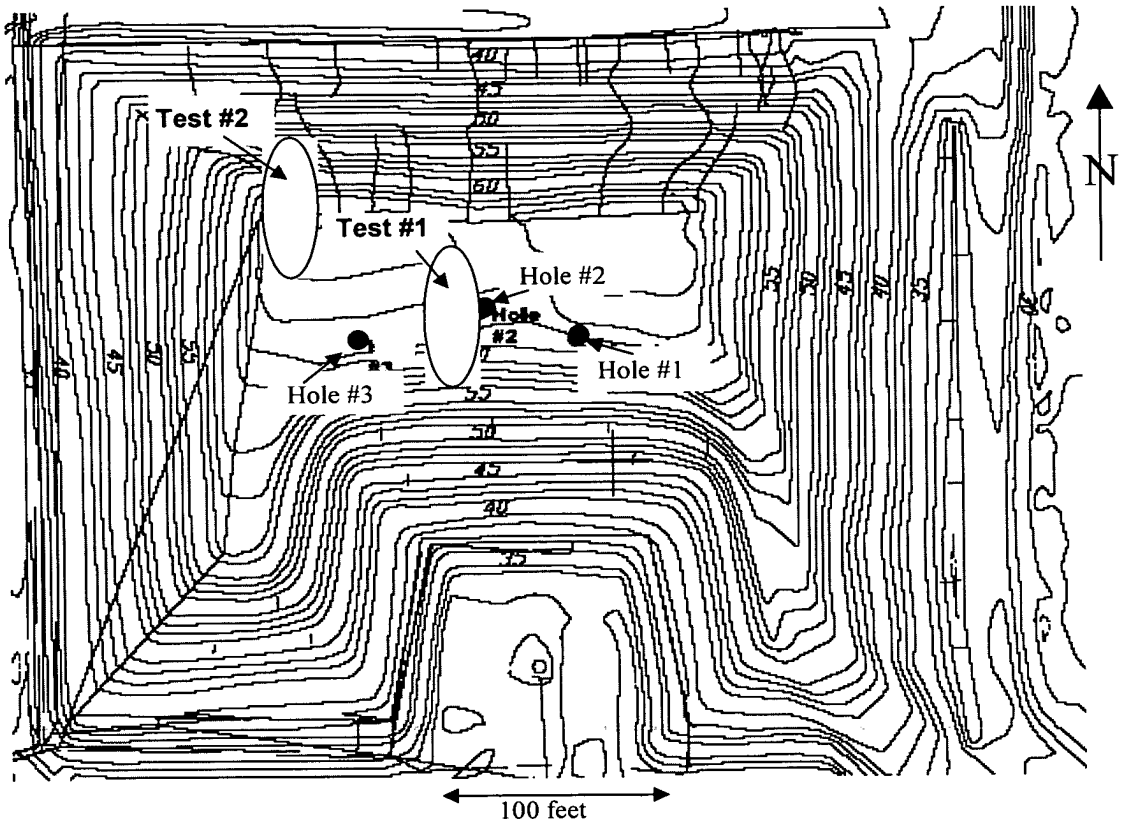


Figure 5.

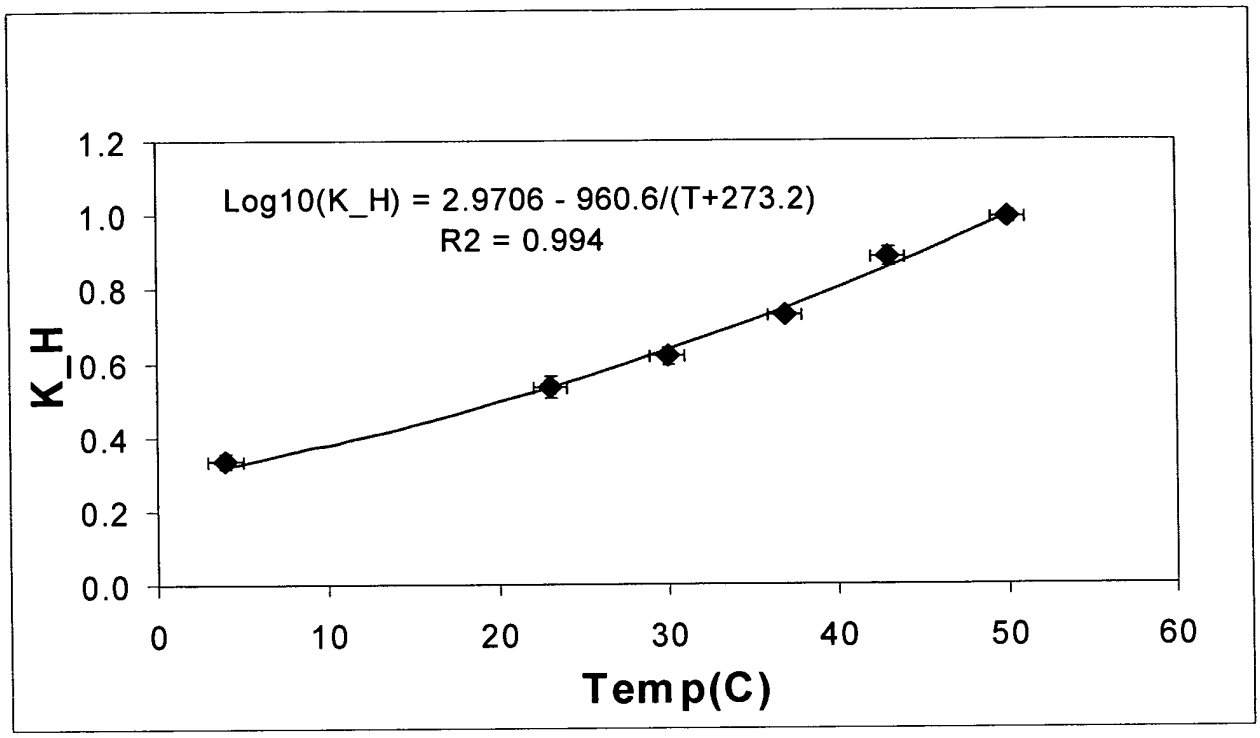
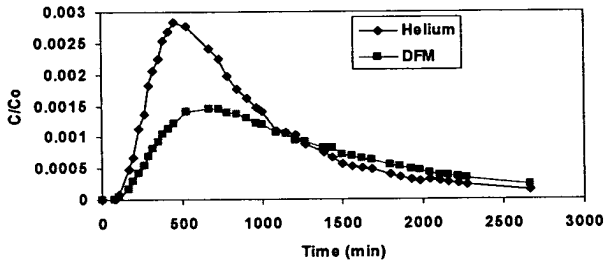

Log10(K_H) = 2.9706 - 960.6/(T+273.2)
R2 = 0.994
K_H
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
60
Temp(C)

Figure 6.

Test #1

Test #2



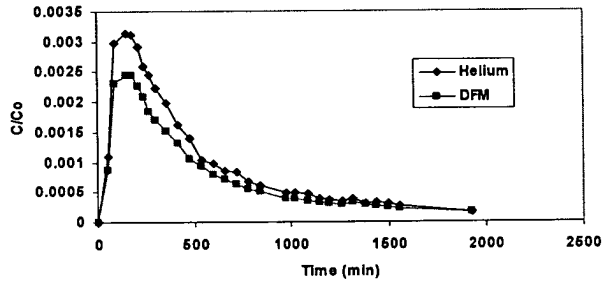


Figure 7.